

This listing of claims will replace all prior versions and listings of claims in the application. No changes have been made. The claims are reproduced here for the convenience of the Examiner.

Listing of Claims:

1-7. (canceled)

8. (previously presented) An isolated protein, wherein (a) the protein comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10 as measured using a sequence comparison algorithm, and (b) has microtubule stimulated ATPase activity.

9. (previously presented) An isolated protein of claim 8, wherein the protein specifically binds to polyclonal antibodies generated against a protein comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10.

10. (previously presented) An isolated protein of claim 8, wherein the protein comprises SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10.

11. (previously presented) An isolated protein comprising the amino acid sequence of SEQ ID NO:2.

12. (previously presented) An isolated protein comprising the amino acid sequence of SEQ ID NO:4.

13. (previously presented) An isolated protein comprising the amino acid sequence of SEQ ID NO:6.

14. (previously presented) An isolated protein comprising the amino acid sequence of SEQ ID NO:8.

15. (previously presented) An isolated protein comprising the amino acid sequence of SEQ ID NO:10.

16. (canceled)

17. (withdrawn) A method for screening a compound for anti-malarial activity, which method comprises

contacting the compound with a protein, wherein the protein (a) comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10 as measured using a sequence comparison algorithm, and (b) has microtubule stimulated ATPase activity; and

determining whether the compound binds to and inhibits the protein, any such binding and inhibition suggesting that the compound may have anti-malarial activity.

18. (withdrawn) A method of claim 17, wherein the screening occurs in a multi-well plate as part of a high-throughput screen.